Seminar 1: Scrum Security Review

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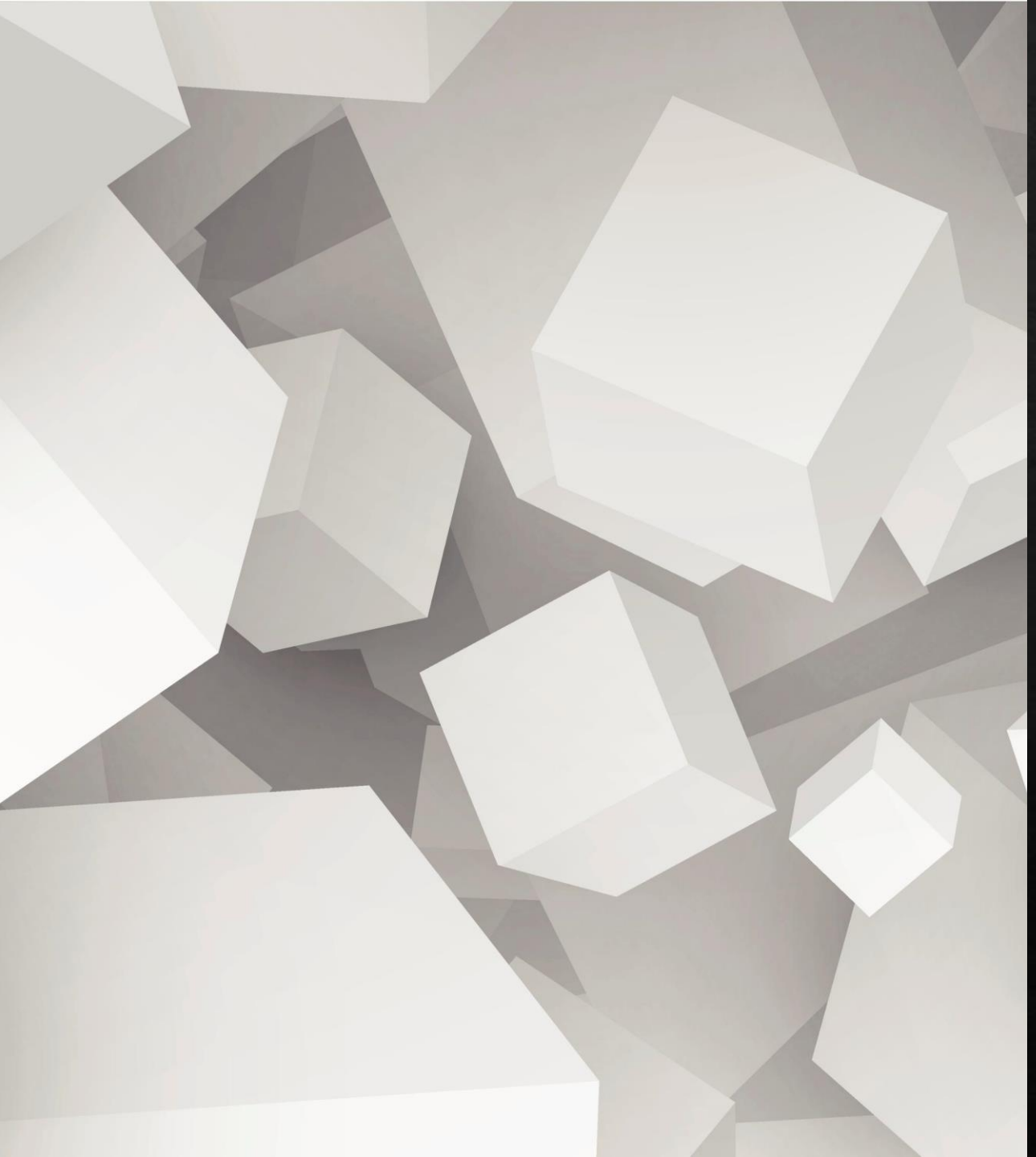

Task

- Create a 2-column multi-line table.
- In the left-hand column, include the software development stages of the Scrum agile life cycle approach to project management.
- In the right-hand column, describe the processes which you recommend are applied at each stage to ensure that secure software is produced at the end of the development

Secure scrum	Definition
Identification	Diagnosis potential security issues the application development process
Implementation	Understanding security concerns by development team via Sprint Planning and Daily Scrums
Verification	Evaluation of the applications security via daily scrums
Definition of done	Outlines the threshold for application completion specifically security issues

Table 1. Secure Scrum Agile Methodology. Pohl and Hof (2015).

Secure scrum	Scrum Stages	Security Stages
Identification	Backlog Refinement Meeting	Function Specification
Implementation	Planning	Threats identification, DREAD, Mitigation, identify entry points
Verification	Sprint	Static code analysis, document security controls
	Sprint	External security testing
Definition of done	Review	Penetration testing, dynamic code analysis, code review

Table 2. Secure Scrum Agile Frameworks. Adapted from Maier et al. (2017) and Pohl and Hof (2015).

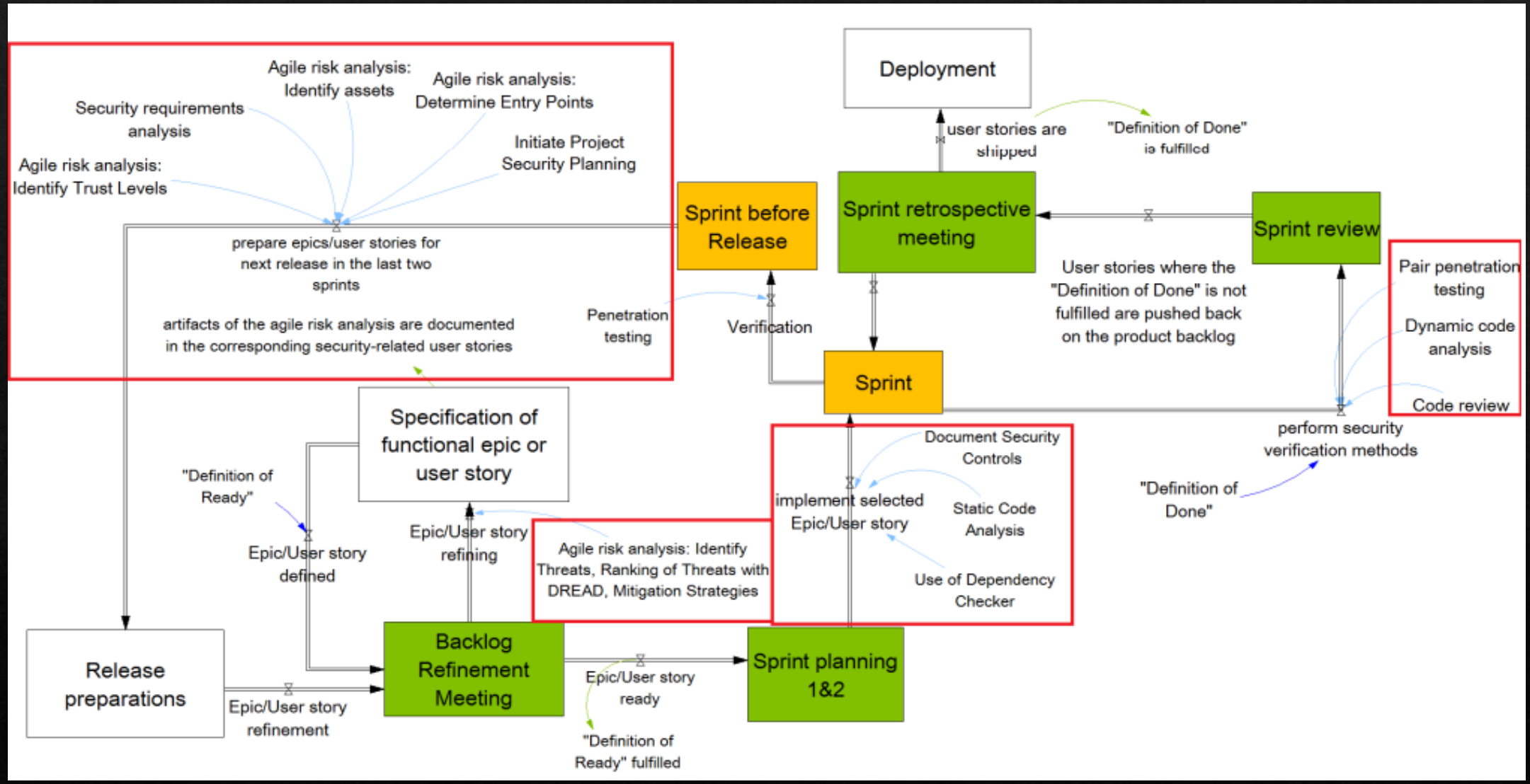

Figure 1. Secure SCRUM AGILE Process. Maier, P. et al. (2017)

References

- Maier, P. et al. (2017) ‘Towards a Secure SCRUM Process for Agile Web Application Development’, in PROCEEDINGS OF THE 12TH INTERNATIONAL CONFERENCE ON AVAILABILITY, RELIABILITY AND SECURITY (ARES 2017). 2017 NEW YORK: ACM. pp. 1–8.
- Pohl, C. and Hof, H. (2015) Secure Scrum: Development of Secure Software with Scrum. ArXiv. Available from: https://www.semanticscholar.org/paper/Secure-Scrum:-Development-of-Secure-Software-with-Pohl-Hof/ece4559a2c0b15aa8fe57297482a22a961bc4ccf [Accessed 16 Aug. 2022].